

Amendments to the Claims:

Please rewrite the claims as follows:

1. (Original) A process for preparing a phenolic polymer via polymerization of phenolic monomers having unsaturated aliphatic chains in the presence of peroxidase biocatalyst and an oxidant, wherein said polymerization uses as a mediator a phenothiazine derivative substituted with an alkyl group or alkyl carbonic acid.
2. (Original) The process according to claim 1, wherein said phenothiazine derivative is used in a concentration of 20-100 μ M with respect to the total reactant.
3. (Original) The process according to claim 1, wherein said phenothiazine derivative is ethyl phenothiazine or phenothiazine-10-propionic acid.
4. (Original) The process according to claim 1, wherein said phenolic monomer is a plant phenolic oil.
5. (Original) The process according to claim 1, wherein said peroxidase biocatalyst is a plant- or fungus-derived peroxidase including horseradish peroxidase, soybean peroxidase, Coprinus peroxidase and Aspergillus peroxidase.
6. (Original) The process according to claim 1, wherein said oxidant is hydrogen peroxide or hydroalkyl peroxide.
7. (Currently Amended) A radical cured resin of the phenolic polymer prepared according to ~~any process of claims 1-6~~ claim 1.
8. (Original) A coating material comprising the radical cured resin of claim 7.
9. (New) A radical cured resin of the phenolic polymer prepared according to claim 2.
10. (New) A radical cured resin of the phenolic polymer prepared according to claim 3.

11. (New) A radical cured resin of the phenolic polymer prepared according to claim 4.
12. (New) A radical cured resin of the phenolic polymer prepared according to claim 5.
13. (New) A radical cured resin of the phenolic polymer prepared according to claim 6.